



071806-00001-041699

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Systems Integration Group, Inc.



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (7504C)  
401 "M" St., S.W.  
Washington, D.C. 20460

EPA Reg. Number:  
71806-1

Date of Issuance:  
APR 16 1999

NOTICE OF PESTICIDE:  
  x   Registration  
      Reregistration

Term of Issuance:  
Conditional

Name of Pesticide Product: PPM

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Plant Cell Technology, Inc.  
1920 North Street, NW  
Washington, D.C. 20036

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.

2. Make the following label changes:

a. Revise the EPA Registration Number to read, "EPA Reg. No. 71806-1".

b. The provided Analytical Methods for the active ingredient, referenced under MRID No. 43865202, has been reviewed and found to be acceptable.

c. The provided product chemistry data in MRID Nos. 445993-01 and 445993-02 provides data for Guideline Series 61, 62, and 63. These data are in compliance with 40 CFR part 158.155 through 158.190. It satisfies product chemistry data for this product.

Signature of Approving Official: Marshall Swindell,  
Product Manager 33

Date:

APR 16 1999

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EPA Reg. No.

The Confidential Statement of Formula dated July 8, 1998, is in compliance with PR Notice 91-2; it agrees with the label and the basic Confidential Statement of Formula, is acceptable.

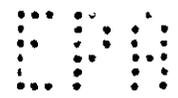
3. Submit two copies of the revised final printed label for the record.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.



Marshall Swindell  
Product Manager 33  
Regulatory Management Branch I  
Antimicrobial Division(7510W)



Precautionary Statements  
 Hazards to Humans and Domestic Animals  
**CAUTION**

Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. **Use rubber gloves when handling.** Harmful if swallowed. Wash thoroughly with soap and water after handling. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

**STATEMENT OF PRACTICAL TREATMENT**

**IF SWALLOWED:** Call a physician or poison control center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat. If person is unconscious, do not give anything by mouth and do not induce vomiting.

**IF IN EYES:** Flush eyes with plenty of water. Call a physician if irritation persists.

**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention if irritation persists.

**Directions for Use**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

*PPM* is a broad-spectrum preservative and biocide. *PPM* is an excellent preservative agent that can be used in research and commercial laboratories to inhibit the growth of, or kill bacteria and fungi in plant tissue culture growth media. It targets fundamental enzymes in the Krebs cycle and in the Electron Transport Chain. Depending on the dose level, *PPM* is both biocidal (>2ml/L of media) and biostatic (<2ml/L of media). When diluted with plant growth media (5-20 ml/L *PPM*/liter growth media is effective as a microbicide against non-human health pathogenic organisms.

1. Media containing *PPM* may be dispensed outside the laminar flow hood (LFH) exposed to the ambient air. The plates should be covered soon after agar solidification. In the event a pump dispenses the media, we recommend passing autoclaved hot water through the hoses before and after dispensing media.

2. Heat sensitive or heat stable liquid media containing *PPM* do not need to be sterilized by Millipore filters or autoclaved provided that it will be stored in sterile containers and that the

<b>PPM</b>	
<b>Preservative for Plant Tissue Culture Media</b>	
<b>ACTIVE INGREDIENTS:</b>	
5-Chloro-2-methyl-3(2H)-isothiazolone.....	0.135%
2-methyl-3(2H)-isothiazolone.....	0.0412%
<b>INERT INGREDIENTS.....</b>	<b>99.8238%</b>
<b>KEEP OUT OF REACH OF CHILDREN</b>	
<b>CAUTION</b>	
<b>EPA REG. NO.</b>	<b>EPA EST NO.</b>

stock solutions are not previously contaminated. In rich media containing 200 mg/liter or more of amino acids or proteins, it is recommended to filter the media with the *PPM*.

3. Working in the LFH the utensils (forceps or scalpels) do not need to be flamed. They may be periodically dipped in 70% alcohol. The LFH does not need to be certified and the work can also be done outside the LFH on a clean surface for a period not exceeding 2 - 3 hours.

4. *PPM* comes in an acidic liquid solution (pH 3.8) and should be stored at 4°C. The recommended dose is 0.5 - 2.0 ml of *PPM* per liter of medium. Higher doses are required to treat endogenous contamination or to obtain Agrobacteria free plant material.

5. *PPM* is less effective when exposed to high density of bacteria or fungi spores found regularly on a seed's coat. For *in vitro* germination, seeds should be conventionally surface sterilized with EPA registered bleach. Therefore, in the presence of *PPM* (in the germination medium), the seeds can be rinsed under tap water in a non-sterile strainer and left to dry preferably in the LFH. Protoplast isolation solution should be sterilized mechanically through Millipore filters with the *PPM*. If the utensil ends have touched active bacteria, fungi culture or otherwise suspected of being contaminated, they should be sterilized by autoclave or by use of an electric heating element.

6. *Endogenous Contamination:*

Plant tissue culture media containing *PPM* at doses of 5-20 ml/l can be used to eliminate endogenous contamination in

seeds and plant-explants. In such cases, the seeds or the explants should be treated with an EPA registered plant disinfectant. After rinsing with D<sub>1</sub> water, explants or buds should be embedded or placed in autoclaved semisolid or liquid medium respectively. The proper media such as callus proliferation or regeneration can be used with only ¼ strength of the inorganic salts, supplemented with 5-20 ml/l *PPM*/media mixture. After 2-5 days the explants can be transferred without rinsing into a similar media (full strength inorganic salts) supplemented with at least 0.5 ml/l *PPM*/media mixture at 20-24 degrees centigrade. Seeds can be transferred to germination medium (full strength of inorganic salts) supplemented with 0.5 ml/l *PPM* after 5-10 days.

It is up to the researchers to determine the optimal combination of *PPM* doses and time exposure. Different plant types and different explant sources are highly varied in their response to *PPM*.

**Storage and Disposal**

**Storage:** Ideal storage temperature is 39°F (4° C). Do not store at temperatures in excess of 70°F (21°C).

**Pesticide Disposal:** Do not contaminate water, food, or feed by storage and disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility

**Container Disposal:** Triple rinse (or equivalent) then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned stay out of smoke.

**NET CONTENTS:**

PLANT CELL TECHNOLOGY, INC.  
 1920 N STREET, NW  
 WASHINGTON, DC 20036  
 Patent No. 5,750,402

ACCEPTED  
 WITH COMMENTS  
 in EPA Letter Dated:

APR 16 1999

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No.

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